

Carbo-Rite™ B-515N

High Impact Polystyrene

Lubrizol Advanced Materials, Inc.

Message:

Carbo-Rite™ B-515N is a carbon black-filled High Impact Polystyrene compound available in pellet form. Carbo-Rite™ B-515N solves a wide range of static decay, static shielding and electromagnetic shielding problems.

General Information			
Additive	Carbon Black		
Features	Electromagnetic Shielding (EMI)		
	ESD Protection		
	High Rigidity		
Uses	Electrical/Electronic Applications		
	Sheet		
Appearance	Black		
Forms	Pellets		
Processing Method	Sheet Extrusion		
	Thermoforming		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.10	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/10.0 kg)	4.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1790	MPa	ASTM D638
Tensile Strength (Yield)	26.0	MPa	ASTM D638
Tensile Elongation (Break)	38	%	ASTM D638
Flexural Modulus	2070	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	75	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa, Unannealed)	70.0	°C	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ¹	< 1.0E+6	ohms	ESD S11.11
Volume Resistivity ² (3.20 mm)	< 1.0E+6	ohms · cm	ESD S11.12
Static Decay - 1000 V to 10 V ³	< 0.1	sec	
NOTE			
1.	12% RH		

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| 2. | 12% RH |
| 3. | Charged Plate Monitor, 12% RH |
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